Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Dasarahalli Division

Name of Work:Modified Estimate For Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRB 2-1.1: Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification. No KBS 2.1(a) / 2.3.1 Ordinary soil — All terms and conditions are as per tender document.								
	Nele Maheshwari Park								
	Childrens Play Area	1	17.30	10.20	0.50	88.23			
	Ramaiah Layout Park								
	Childrens Play Area	1	9.50	4.65	0.50	22.09			
		1	1.00	2.80	0.50	1.40			
	Gym Equipment Area								
		1	12.50	2.80	0.50	17.50			
		1	5.00	4.90	0.50	12.25			
	Gate Entrance	1	3.20	0.60	0.50	0.96			
	Debris	1	20.00	2.00	0.30	12.00			
						154.43	Cum	**263.28**	**40,657.67**
	Approved Rate	263.28							
2	KSRRB M300-55. Construction of sub-grade and earthen shoulders with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No 300-2 complete as per specifications, including cost of earth, watering charges & compaction by vibratory roller to 97% of modified proctors density) MORTH Specification No 305 — All terms and conditions are as per tender document.								
						0.00	Cum	**369.02**	**0.00**
	Approved Rate	369.02							
3	KSRB 2-2.1 : Earthwork excavation by manual means in ordinay soil for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No KBS 2.1(a) / 2.3.5 — All terms and conditions are as per tender document.								
	Nele Maheshwari Park								
	Gym Equipment Area								
		1	20.00	3.00	0.45	27.00			
	Ramaiah Layout Park								
	Gym Equipment Area								
		1	15.00	4.00	0.45	27.00			
	MEI Layout								
	Gym Equipment Area								
		1	18.70	4.57	0.45	38.41			
	Ramaiah Layout Park								
	Benches Platform								

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		25	1.30	1.90	0.40	24.70			
	Ramaiah Layout Park	23	1.30	1.90	0.40	22.72			
	Gazib platform Area								
	Area of hexagon=(S Squareroot S2)/2	(3*1.73*3.3*3.3)/2			0.45	12.72			
	Gazib platform Area								
	Area of Circle								
	Circumference=Csquare/4pi C=16.2	(16.2*16.2/4*3.14)			0.45	9.40			
	Extra Park								
	Gym Equipment Area								
		1	18.70	4.20	0.45	35.34			
	For Equipment Foundation								
	Nele Maheshwari Park								
		28	0.60	0.60	0.60	6.05			
	Ramaiah Layout Park								
		28	0.60	0.60	0.60	6.05			
	MEI Layout								
		14	0.60	0.60	0.60	3.02			
	Extra Park								
		14	0.60	0.60	0.60	3.02			
	For Compound Wall								
	Soap Factory Park								
		1	26.10	0.80	0.90	18.79			
		1	11.80	0.75	0.90	7.97			
		1	30.00	0.75	0.90	20.25			
	RCC Drain								
	Soap Factory Park								
		1	26.10	1.10	1.00	28.71			
		1	11.80	1.10	1.00	12.98			
	Ramaiah Layout Park								
	Damaged portion Path way								
		1	60.00	1.45	0.25	21.75			
	Opp Park	1	60.00	1.50	0.25	22.50			
	KERB STONE								
	MEI Layout								
	Gym Platform Area								
		1	39.20	0.20	0.25	1.96			
	Nele Maheshwari Park								
	Gym Platform Area								
	Entrance	2	5.90	0.20	0.25	0.59			
		1	19.30	0.20	0.25	0.97			
	Ramaiah Layout Park								
	Gym Platform Area								
		2	5.00	0.20	0.25	0.50			
		2	2.80	0.20	0.25	0.28			
	Children Play Area	2	9.50	0.20	0.25	0.95			
		2	4.65	0.20	0.25	0.47			
	Ramaiah Layout Park								
	Benches Platform								
		25	1.30	0.20	0.25	1.63			

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		25	1.90	0.20	0.25	2.38			
		25	1.50	0.20	0.25	1.88			
		23	1.90	0.20	0.25	2.19			
		23	1.50	0.20	0.25	1.73			
	Missing Kerb								
	Ramaiah Layout Park								
		1	270.00	0.20	0.25	13.50			
	Approved Rate	316.15				**377.39**	Cum	**316.15**	**119310.89**
4	KSRB 2.10 : Providing sand cement bed with 5% cement all leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications. specification. No KBS 2.10.2 — All terms and conditions are as per tender document.								
	For Equipment Foundation								
	Nele Maheshwari Park								
		28	0.60	0.60	0.15	1.51			
	Ramaiah Layout Park								
		28	0.60	0.60	0.15	1.51			
	MEI Layout								
		14	0.60	0.60	0.15	0.76			
	Extra Park								
		14	0.60	0.60	0.15	0.76			
	For Compound Wall								
	Soap Factory Park								
		1	26.10	0.80	0.15	3.13			
		1	11.80	0.75	0.15	1.33			
						9.00	Cum	**3169.94**	**28,515.20**
	Approved Rate	3169.94							
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No KBS 4.1, 4.2 ---- All terms and conditions are as per tender document.								
	Nele Maheshwari Park								
	Gym Equipment Area								
		1	20.00	3.00	0.15	9.00			
	Ramaiah Layout Park								
	Gym Equipment Area								
		1	15.00	4.00	0.15	9.00			
	MEI Layout								
	Gym Equipment Area								
		1	18.70	4.57	0.15	12.80			
	Ramaiah Layout Park								
	Benches Platform								
		25	1.30	1.90	0.15	9.26			
		23	1.30	1.90	0.15	8.52			
	Ramaiah Layout Park								
	Gazib platform Area								
	Area of hexagon=(S Squareroot S2)/2	(3*1.73*3.3*3.3)/2			0.15	4.24			
	Gazib platform Area								

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Area of Circle										
Circumference=Csquare/4pi	(16.2*16.2/4*3.14)			0.15	3.13					
C=16.2										
Extra Park										
Gym Equipment Area										
For Equipment Foundation	1	18.70	4.20	0.15	11.78					
Nele Maheshwari Park										
Ramaiah Layout Park	28	0.60	0.60	0.15	1.51					
MEI Layout	28	0.60	0.60	0.15	1.51					
Extra Park	14	0.60	0.60	0.15	0.76					
For Compound Wall	14	0.60	0.60	0.15	0.76					
Soap Factory Park										
	1	26.10	0.80	0.15	3.13					
	1	11.80	0.75	0.15	1.33					
	1	30.00	0.75	0.15	3.38					
RCC Drain										
Soap Factory Park										
	1	26.10	1.10	0.15	4.31					
	1	11.80	1.10	0.15	1.95					
KERB STONE										
MEI Layout										
Gym Platform Area										
	1	39.20	0.20	0.10	0.78					
Nele Maheshwari Park										
Gym Platform Area										
Entrance	2	5.90	0.20	0.10	0.24					
	1	19.30	0.20	0.10	0.39					
Ramaiah Layout Park										
Gym Platform Area										
	2	5.00	0.20	0.10	0.20					
	2	2.80	0.20	0.10	0.11					
Children Play Area	2	9.50	0.20	0.10	0.38					
	2	4.65	0.20	0.10	0.19					
Ramaiah Layout Park										
Benches Platform										
	25	1.30	0.20	0.10	0.65					
	25	1.90	0.20	0.10	0.95					
	25	1.50	0.20	0.10	0.75					
	23	1.90	0.20	0.10	0.87					
	23	1.50	0.20	0.10	0.69					
Missing Kerb										
Ramaiah Layout Park										
	1	270.00	0.20	0.10	5.40					
					97.96	Cum				
		Upto 125%			**90.48**	Cum	**5491.88**	**496877.84**		
		Above 125%			**7.49**	Cum	**5491.88**	**41134.14**		
Approved Rate	5491.88									

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6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.walls & bottom thickness 15cm For Building work — All terms and conditions are as per									
	Nele Maheshwari Park									
	Gym Equipment Area									
		1	20.00	3.00	0.15	9.00				
	Ramaiah Layout Park									
	Gym Equipment Area									
		1	15.00	4.00	0.15	9.00				
	MEI Layout									
	Gym Equipment Area									
		1	18.70	4.57	0.15	12.80				
	Ramaiah Layout Park									
	Benches Platform									
		25	1.30	1.90	0.15	9.26				
		23	1.30	1.90	0.15	8.52				
	Ramaiah Layout Park									
	Gazib platform Area									
	Area of hexagon=(S Squareroot S2)/2	(3*1.73*3.3*3.3)/2			0.15	4.24				
	Gazib platform Area									
	Area of Circle									
	Circumference=Csquare/4pi C=16.2	(16.2*16.2/4*3.14)			0.15	3.13				
	Extra Park									
	Gym Equipment Area									
		1	18.70	4.20	0.15	11.78				
						67.74	Cum			
			Upto 125%			**17.10**	Cum	7052.52	120598.09	
			Above 125%			**50.64**	Cum	7052.52	357160.72	
	Approved Rate	7052.52								
7	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No KBS 4.1, 4.6 ---- All terms and conditions are as per tender document.									
	For Equipment Foundation									
	Nele Maheshwari Park									
		28	0.60	0.60	0.45	4.54				
	Ramaiah Layout Park									
		28	0.60	0.60	0.45	4.54				
	MEI Layout									
		14	0.60	0.60	0.45	2.27				

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	Extra Park								
	For Steps	14	0.60	0.60	0.45	2.27			
	Ramaiah Layout Park								
	1st Step								
	2nd Step	1	2.60	0.75	0.10	0.20			
	3rd Step	1	2.60	0.45	0.10	0.12			
		1	2.60	0.30	0.10	0.08			
	Approved Rate	6145.32				14.00	Cum	6145.32	86,022.19
8	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2 ---- All terms and conditions are as per tender								
	Approved Rate	272.80				0.00	Sqm	272.80	0.00
9	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No KBS 4.6.3 TMT bars Fe 500 ---- All terms and conditions are as per tender document.								
	Approved Rate	82480.70				0.00	Tn	82480.70	0.00
10	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made out of M25 with OPC cement @ 340 Kgs per Cum, with 20mm and down size graded granite metal coarse aggregates @ 0.70 Cum and fine aggregated @ 0.74 Cum with super plasticisers, machine mixed, including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost & reinforcement charges, including finishing as required with cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by Engineer in charge of the work. ---- All terms and conditions are as per tender document.								
	Approved Rate	1719.69				0.00	Cum	1719.69	0.00
11	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 --- All terms and conditions are as per tender document.								
	For Compound Wall								
	Soap Factory Park								
	1st Step								
		1	26.10	0.75	1.00	19.58			
		1	11.80	0.60	0.80	5.66			
		1	30.00	0.60	0.80	14.40			
	2nd Step								
		1	26.10	0.60	0.30	4.70			
		1	11.80	0.45	0.40	2.12			
		1	30.00	0.45	0.40	5.40			
						51.86	Cum	**4859.58**	252022
	Approved Rate	4859.58							

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	KSRB 15.1.3 – do – Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar 1:3 after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. ---- All terms and conditions are as per tender document.								
	For Compound Wall								
	Soap Factory Park								
		1	26.10		1.30	33.93			
		1	11.80		1.20	14.16			
		1	30.00		1.20	36.00			
	Approved Rate	150.14				**84.09**	Sqm	**150.14**	**12,625.27**
13	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.Specification No KBS 4.1, 4.2 ---- All terms and conditions are as per tender document.								
	For Compound Wall								
	Soap Factory Park								
		1	26.10	0.60	0.10	1.57			
		1	11.80	0.45	0.10	0.53			
		1	30.00	0.45	0.10	1.35			
	Approved Rate	5732.95				**3.45**	Cum	**5732.95**	**19,761.48**
14	KSRB 14.6-1 : Providing and laying heavy duty cobble stones interlock pavers 60mm thick, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No KBS ---- All terms and conditions are as per tender document.								
	Ramaiah Layout Park								
	Damaged portion Path way								
		1	60.00	1.45		87.00			
	Opp Park	1	60.00	1.50		90.00			
						177.00	Sqm	**1113.39**	**197070.0**
	Approved Rate	1113.39							
15	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. ---- All terms and conditions are as per tender document.								
	KERB STONE								
	MEI Layout								
	Gym Platform Area								
		1	39.20			39.20			

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	Nele Maheshwari Park								
	Gym Platform Area								
	Entrance								
		2	5.90			11.80			
		1	19.30			19.30			
	Ramaiah Layout Park								
	Gym Platform Area								
		2	5.00			10.00			
		2	2.80			5.60			
	Children Play Area	2	9.50			19.00			
		2	4.65			9.30			
	Ramaiah Layout Park								
	Benches Platform								
		25	1.30			32.50			
		25	1.90			47.50			
		25	1.50			37.50			
		23	1.90			43.70			
		23	1.50			34.50			
	Missing Kerb								
	Ramaiah Layout Park								
		1	270.00			270.00			
						579.90			
						1289.00	Nos	**431.40**	556074.60
	Approved Rate	431.40							
16	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 ---- All terms and conditions are as per tender document.								
	KERB STONE								
	MEI Layout								
	Gym Platform Area								
		1	39.20		0.30	11.76			
	Nele Maheshwari Park								
	Gym Platform Area								
	Entrance	2	5.90		0.30	3.54			
		1	19.30		0.30	5.79			
	Ramaiah Layout Park								
	Gym Platform Area								
		2	5.00		0.30	3.00			
		2	2.80		0.30	1.68			
	Children Play Area	2	9.50		0.30	5.70			
		2	4.65		0.30	2.79			
	Ramaiah Layout Park								
	Benches Platform								
		25	1.30		0.30	9.75			
		25	1.90		0.30	14.25			
		25	1.50		0.30	11.25			
		23	1.90		0.30	13.11			
		23	1.50		0.30	10.35			
	Missing Kerb								
	Ramaiah Layout Park								
		1	789.50		0.30	236.85			
						329.82	Sqm		

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			Upto 125%			213.68	Sqm	84.59	18074.77
	Approved Rate	84.59	Above 125%			116.15	Sqm	84.59	9824.71
17	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. —— All terms and conditions are as per tender document.								
	Nele Maheshwari Park								
	Gym Equipment Area								
		1	20.00	3.00		60.00			
	Ramaiah Layout Park								
	Gym Equipment Area								
		1	15.00	4.00		60.00			
	MEI Layout								
	Gym Equipment Area								
		1	18.70	4.57		85.37			
	Ramaiah Layout Park								
	Benches Platform								
		25	1.30	1.90		61.75			
	Deduction Of Tiles	-25	0.70	0.30		-5.25			
		23	1.30	1.90		56.81			
	Ramaiah Layout Park								
	Gazib platform Area								
	Area of hexagon=(S Squareroot S2)/2	(3*1.73*3.3*3.3)/2				28.26			
	Gazib platform Area								
	Area of Circle								
	Circumference=Csquare/4pi C=16.2	(16.2*16.2/4*3.14)				20.89			
	Extra Park								
	Gym Equipment Area								
		1	18.70	4.20		78.54			
						446.37	Sqm		
			Upto 125%			**260.70**	Sqm	**1302.66**	**339603.46**
			Above 125%			**185.67**	Sqm	**1302.66**	**241864.82**
	Approved Rate	1302.66							
8	KSRB 2.6 : Providing and filling sand in foundation to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. specification. No KBS 2.10.2 —— All terms and conditions are as per tender document.								
	Nele Maheshwari Park								
	Childrens Play Area	1	17.30	10.20	0.30	52.938			
	Ramaiah Layout Park								
	Childrens Play Area	1	9.50	4.65	0.30	13.25			
		1	1.00	2.75	0.30	0.83			
						67.02	Cum		
			Upto 125%			**25.25**	Sqm	**2178.14**	**54998.04**
			Above 125%			**41.77**	Sqm	**2178.14**	**90971.11**

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	Approved Rate	2178.14							
19	Fabricating, providing and erecting in poiston of Hot dip galvanised M S Ornamental security Grill using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drilling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings. — All terms and conditions are as per tender document.								
	Approved Rate	189.27				0.00	Kg	189.27	0.00
20	Providing, fabricating and fixing Special Multiplay Systems consists of FRP moulded with Aluminium chequered Platforms of size 5'X5' with 4 Support piller made out of 75mm dia G.I "B" Pipes fixed in cement concrete 1:2:4. The platforms are to be covered with tubular Slide & Mini Aquva tunnel slide made up of high quality FRP the slide is to fixed at a height of 11' and runs runs for a length of not less than 20' and the slide should be supported at regular intervals of 6' using M.S. pipes support and the platform ladder with 25mm dia MS pipes with suitable hand rails and steps made out of G I sheet with tred 4" with powder coated finish, fine quality FRP with suitable design and as per drawing Moulded FRP slides are non-corrossive, fade free,tough grade, durable hard and should prevent UV light. The work should be executed as per the standard specifications and directions of the engineer in charge ofthe with all lead and lift, loading and unloading and any incidental chatges required for the successful completion of the work. (All FRP items are gel water finish or stoving paint i ovens) and as per the drawing and specification and direction of the Engineer in charge of the work. — All terms and conditions are as per tender document.								
		2				2.00			
						2.00	Set		
			Upto 125%			1.25	Set	593512.50	741890.63
			Above 125%			0.75	Set	593512.50	445134.38
	Approved Rate	593512.50							
21	Providing fabricating and fixing of spiral climber of height not less than 10' made out of 25mm dia MS pipe with Aluminium chequere plate platform of size 3'x3' with 4legs made out of 75mm dia G.I Pipes fixed cement concrete 1:2:4. The platforms are to be covered with pyramid shaped FRP roof. The platform is to be fitted with Single Lane slide made up of high quality FRP the slide is to fixed at a height of 9' and runs for a length of not less than 20' the slide should be suported at regular intervals of 4' using M.S. pipes support powder coated, fine quality FRP with suitable design and as per drawing platforms should be placed at approximately 9' from ground level. Moulded FRP slides are non-corrossive, fade free, tough grade, durable hard and should prevent UV light. The work should be executed as per the standard specifications and directions of the engineer in charge of the with all lead and lift, loading and unloading and any incidental charges required for the successful completion of the work. (All FRP items are gel water finish or stoving paint in ovens) and as per the drawing and specification and direction of								
	Approved Rate	179550.00				0.00	Set	179550.00	

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22	Providing, fabricating and fixing play equipments consisting of the platform with 65mm dia MS pipe & Aluminium chequered plates of size 3'x3' fixed at 7' height from ground level with 4 legs made out of 75 mm dia G.I Pipes fixed cement concrete 1:2:4. The platforms are to be covered with pyramid shaped FRP roof, the slide should be supported at regular intervals of 4' using M.S. pipes support powder coated, fine quality FRP with suitable design and as per drawing. The play equipment is to be fitted with Double seated swing for kids and Aqua bowl slide made up of high quality FRP the slide is to fixed at a height of 7' and runs for a length of not less than 12'. Moulded FRP slides are non-corrossive, fade free, tough grade, durable hard and should prevent UV light. The work should be executed as per the standard specifications and diredtions of the engineer in charge of the with all lead and lift, loading and unloading and any incidental charges required for the successful completion of the work. (All FRP items are gel water finish or stoving paint in ovens) The chain of the swing are rubber coated with stainless steel sheets and as per the drawing and specification and direction of the Engineer in charge of the work. ----								
	Approved Rate	219450.00				0.00	Set	219450.00	0.00
23	Providing, fabricating and fixing Special play equipments consisting of the platform with 65mm dia MS pipe & Aluminium chequered plates of size 3'x3' fixed at 5' height from ground level with 4 legs made out of 65mm dia G.I. "B" Pipes fixed cement concrete 1:2:4. The platforms are to be fitted with Monkey climber for kids and Roller slide (Moulded plastic rollers) fixed at a height of 5' and runs for a length of not less than 12', the slide should be supported at regular intervals of 6' usng M.S. pipes support powder coated, fine quality FRP with suitable design and as per drawing. Moulded FRP slides are non-corrossive, fade free, tough grade, durable hard and should prevent UV light. The work should be executed as per the standard specifications and directions of the engineer in charge of the with all lead and lift, loading and unloading and any incidental charges required for the successful completion of the work. (All FRP items are gel water finish or stoving paint in ovens) and as per the drawing and specification and								
	Approved Rate	179550.00				0.00	Set	179550.00	0.00
24	Providing, fabricating and fixing children play equipments consisting of the platform with 65mm dia MS pipe & Aluminium chequered plates of size 3'x3' fixed at 3' height from ground level with 4 legs made out of 75mm dia G.I. Pipes fixed cement concrete 1:2:4. The platforms are to be covered with pyramid shaped FRP roof, fine quality FRP with suitable design and as per drawing. The platform is to be fitted with Double twin wave slide for kids made up of high quality FRP material and also high quality plastic rope climber is to fixed at a height of 3' and runs for a length of not less than 5'. Moulded FRP slides are non-corrossive, fade free, tough grade, durable hard and should prevent UV light. The work should be executed as per the standard specifications and directions of the engineer in charge of the with all lead and lift, loading and unloading and any incidental charges required for the successful completion of the work. (All FRP items are gel water finish or stoving paint in ovens) and as per the drawing and specification and direction of the Engineer in charge of the work. ---- All terms and conditions are as per tender document.								
	Approved Rate	144637.50				0.00	Set	144637.50	0.00
25	Providing fabricating and fixing Multiplay Special Slider Systems consisting of the platform with 25mm dia MS pipe with Aluminium chequered plates of size 3'x3' & 7' height from ground level with 4legs made out of 65mm dia G.I Pipes fixed cement concrete 1:2:4. The platforms is to be fitted with FRP Wave slide, spiral slide and standard slide, with vertical ladder on one slide each with G.I sheet steps of tred 4" 25mm dia MS pipes with suitable hand rails fixed at a height of 5' and runs for a length of not less than 12'. The platform are to be covered with pyramid shaped FRP roof, the slide should be supported at regular intervals of 4' using M.S. pipes support powder coated, fine quality FRP with suitable design and as per drawing. Moulded FRP slides are non-corrossive, fade free, tough grade, durable hard and should prevent UV light. The work should be executed as per the standard specifications and directions of the engineer in charge of the with all lead and lift, loading and unloading and any incidental charges required for the successful completion of the work. (All FRP items are gel water finish or stoving paint in ovens) and as per the drawing and specification and direction of the Engineer in charge of the work. ---- All								

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	Approved Rate	518700.00				0.00	Set	518700.00		0.00
26	Providing and fixing children play bridge with M.S' perforated tunnel, wave bridge, Arch bridge & hanging bridge made out of MS pipes and chequred plates uns for a height 11' to 5'. The work should be executed as per the standard specification and direction of the engineer in charge of the with all lead and lift, loading and unloading and any incidental charges required for the successful completion of the work. (all swings chains are rubber coated & all 'S' hooks are stainless steel) and as per the drawing and specification and direction of the Engineer in charge of the work. — All terms and conditions are as per tender document.									
	Approved Rate	119700.00				0.00	Set	119700.00		0.00
27	Supply & fixing of Pull Down Challenger (Shoulder Press) (Area - 4'6" X 3' Height 7') : All tubular steel of 2.5mm thickness are galvanized and zinc dipped. All welded joints are scalloped as necessary and welded. All welds are dressed off removing all sharp edges and burrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance - free self greased SKF ball bearings. Scope of delivery : 1 completely pre assembled equipments modules. This equipment is powder coated — All terms and conditions are as per tender document.									
	Nele Maheshwari Park									
		1				1.00				
	Ramaiah Layout Park									
		1				1.00				
	MEI Layout									
		2				2.00				
						4.00	Nos			
			Upto 125%			**3.75**	Nos	247380.00		927675.00
			Above 125%			**0.25**	Nos	247380.00		61845.00
	Approved Rate	247380.00								
28	Supply & fixing of Seated Chest Press (Area - 4'6" X 3' Height 7') : The chest press is heavy guage steel made up of 100mm NB MS pipes. The sub structure consists of 25 mm NB MS pipes and heavy duty bushes pivoted to one end and moveable up down on the other. The seats are made up of pressed FRP, self weighted machine built to support vigorous workout for up to 2 people. The Chest press supports and promotes strength to the chest, arms, shoulders and back. The exercise can be done in repetitions by increasing the time gradually which help in building stamina. Maintenance - free self greased SKF ball bearings. The whole equipment is powder coated — All terms and conditions are as per tender document.									
	Nele Maheshwari Park									
		1				1.00				
	Ramaiah Layout Park									
		1				1.00				
	MEI Layout									
		2				2.00				
						4.00	Nos			
			Upto 125%			**3.75**	Nos	257355.00		965081.25
			Above 125%			**0.25**	Nos	257355.00		64338.75
	Approved Rate	257355.00								

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29	Supply & fixing of Elliptical (Cross Trainer) (Area - 5' X 3', Height - 5'6") : All tubular steel of 2.5 mm thickness are galvanized and zinc dipped.All welded. All welded joints are dressed off removing all sharp edges and burrs. All metal parts are powder coated using marpol powder to the thickness of 80-120microns. Rubber: High quality grip rubber is used for the handles. Bearings Maintenance-free self greased SKF ball bearings Scope of delivery: 1 completely pre-assembled equipment modules. This equipment is powder coated. --- All terms and conditions are as per tender document.									
	Nele Maheshwari Park									
	Ramaiah Layout Park	1				1.00				
	MEI Layout	1				1.00				
		2				2.00				
						4.00	Nos			
			Upto 125%			**3.75**	Nos	147630.00	553612.50	
	Approved Rate	147630.00	**Above 125%**			**0.25**	Nos	147630.00	36907.50	
30	Supply & fixing of Air walker (moon walker) area-4' X 3' height 4') : This equipment is made up of 100mm NB heavy guage pipes .The footsteps are made up of Alunminium castings. This helps in strengthening and toning the legs. Experiment with various speeds and different levels of intensity can be done maintenance- free self greased SKF ball bearings. This Equipment is powder coated. --- All terms and conditions are as per tender document.									
	Nele Maheshwari Park									
	Ramaiah Layout Park	1				1.00				
	MEI Layout	1				1.00				
		2				2.00				
	Approved Rate	177555.00				**4.00**	Nos	177555.00	710220.00	
31	Supply & fixing of Doulbe health walker (Hand Puller) (Area- 5'6"x3'6" Height -5'6") : This equipment is made up of Central 100mm pillars. The first steps are made up of Aluminium castings. Two people can exercise on the equipment in a back and forth motion. Experiments with various speeds and different levels of intensity can be done. It gives cardiovascular benefits promotes strengthening the biceps,hips and lower back. Maintenance-free self greased SKF ball bearings. This Equipment is powder coated ---- All terms and conditions are as per tender document.									
	Nele Maheshwari Park									
	Ramaiah Layout Park	1				1.00				
	MEI Layout	1				1.00				
		2				2.00				
	Approved Rate	257355.00				**4.00**	Nos	257355.00	1029420.00	
32	Supply & fixing of Bicycle (Exercise Cycle) (Area- 4'x3' Height -4') : This is a stationary cycle made up of central pillar 100m pipes. The seat is made up of FRP. This equipment gives the benefits of cycling and improves blood flow to the legs. Maintenance free self-greased SKF ball bearings. The whole equipment is powder coated. ---- All terms and conditions are as per tender document.									

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	Nele Maheshwari Park								
	Ramaiah Layout Park	1				1.00			
	MEI Layout	1				1.00			
		2				2.00			
						4.00	Nos		
			Upto 125%			3.75	Nos	133665.00	501243.75
	Approved Rate	133665.00	Above 125%			0.25	Nos	133665.00	33416.25
36	Supply & fixing of Hip Swivel (Area- 3'x3' Height -4'6") : This equipment is made up of 100mm NB central pillars. The footsteps are made up of Aluminium castings. This exercises a swinging motion on slide and thereby strengthens the ower abdomen , hips and thighs. This improves both cardiovascular fitness and flexibility. The whole equipment is duly powder coated ---- All terms and conditions are as per tender document.								
	Nele Maheshwari Park								
	Ramaiah Layout Park	1				1.00			
	MEI Layout	1				1.00			
		2				2.00			
						4.00	Nos		
			Upto 125%			3.75	Nos	197505.00	740643.75
	Approved Rate	197505.00	Above 125%			0.25	Nos	197505.00	49376.25
37	Providing and fixing plain Sadarahalli granite benches of 4feet length and 1 feet width with side arm supports of 18" height with all lead and lift and loading and unloading as per the direction of in charge of work including all taxes ---- All terms and conditions are as per tender document.								
	Benches								
	Ramaiah Layout Park								
		16				16.00			
		19				19.00			
		23				23.00			
						58.00	Nos		
			Upto 125%			37.50	Nos	16957.50	635906.25
			Above 125%			20.50	Nos	16957.50	347628.75
	Approved Rate	16957.50							
	EIRL								
1	kSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 liter/sqm., including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7) ---- All terms and conditions are as per tender document (P.No-10 ,I No-3.2 of PWD SR 2018-19.)								

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	Basic rate	108.00							
	Area Weightage 6%	6.48							
	Total	114.48							
	Tender Premium-0.25%	0.29							
	Sub Total	114.19							
	Nele Maheshwari Park								
	Gym Equipment Area								
		1	20.00	3.00		60.00			
	Ramaiah Layout Park								
	Gym Equipment Area								
		1	15.00	4.00		60.00			
	MEI Layout								
	Gym Equipment Area								
		1	18.70	4.57		85.37			
	Ramaiah Layout Park								
	Benches Platform								
		25	1.30	1.90		61.75			
	Deduction Of Tiles	-25	0.70	0.30		-5.25			
						261.87	Sqm	**114.19**	**29,903.42**
E2	Supply And Fixing Of Children play Equipment Four Seater Seesaw: The Seesaw Consists Of 2 Poles Of Dia 114mm And Thickness of 2.5mm Which Balances the Horizontal Rod At The Centre Which is Of Size 3110mm Length And Dia 114mm.It Consists of 4seats Which is Made of LIDPE Virgin Plastic of Size 305mm X 125mm.The rates Are To Be Inclusive Of Supply And Installatiion At Site Inclusive Of All Taxes And Transportation Charges.(Data Rate)								
	Nele Maheshwari Park								
		1				1.00			
	Ramaiah Layout Park								
		1				1.00			
						2.00	Nos	**106971.90**	**213943.80**
	Data Rate	107240.00							
	Tender Premium-0.25%	268.10							
	Sub Total	106971.90							
E3	Supply And Fixing of Children play Equipment Maxima N Swing : Inverted U Shape Structural Posts Of Height 2.31 m are To Be Schedule HOT DIP Galvanized Steel With 114 mm OD And 2.2mm Wall thickness of Tubing Toproll At Height 2.31m And Dia 114mm Shall Be AnAll Robotic Welded Unit Fabricated From 114O.D Plasic Components Such As Swing mmSwing Seats With Colour Molded In and Minimum Thickness Of 6-8mmThe rates Are To Be Inclusive Of Supply And Installatiion At Site Inclusive Of All Taxes And Transportation Charges(Data Rate)								
	Nele Maheshwari Park								
		1				1.00			
	Ramaiah Layout Park								
		1				1.00			
						2.00	Nos	**188023.76**	3
	Data Rate	188495.00							
	Tender Premium-0.25%	471.24							
	Sub Total	188023.76							

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	Supply And Fixing Of Children Play Equipment Horse Rider: HDPE Of Size 0.83m X 0.31m X 0.87m Plastic Components Super Thick Plastic Shall be Rorationally Molded Anistastic Copolymer Virgin Linear Low Density UV Stabilized Polyethlyene With Colour Molded is Not Added .Spelized Connectors Such As Clamps And Couplings Are To Be Cast From Aluminium Which is Pre - treated And Curved With Baked on Powder Coat Finish.The rates Are To Be Inclusive Of Supply And Installation At Site Inclusive Of All Taxes And Transportation Charges(Data Rate)								
	Nele Maheshwari Park								
	Ramalah Layout Park	1				1.00			
		1				1.00			
	Data Rate	55776.00				2.00	Nos	55636.56	111273.12
	Tender Premium-0.25%	139.44							
	Sub Total	55636.56							
E5	Supply And Fixing Of Children Play Equipment Pupy Dog Rider : HDPE Of Size 0.83m X 0.31m X 0.87m Plastic Components Super Thick Plastic Shall be Rorationally Molded Anistastic Copolymer Virgin Linear Low Density UV Stabilized Polyethlyene With Colour Molded is Not Added .Spelized Connectors Such As Clamps And Couplings Are To Be Cast From Aluminium Which is Pre - treated And Curved With Baked on Powder Coat Finish.The rates Are To Be Inclusive Of Supply And Installation At Site Inclusive Of All Taxes And Transportation Charges(Data Rate)								
	Nele Maheshwari Park								
	Ramaiah Layout Park	1				1.00			
		1				1.00			
	Data Rate	55776.00				2.00	Nos	55636.56	111273.12
	Tender Premium-0.25%	139.44							
	Sub Total	55636.56							
E6	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications(Page no-123, Item No-15.74 of PWD SR 2018-19.)` ---- All terms and conditions are as per tender document								
	Basic rate	95.00							
	Area Weightage 6%	5.70							
	Total	100.70							
	Painting	1	60.00		1.80	108.00			
						108.00	Sqm	100.70	10,8
E7	Supplying and fixing new Mangalore tiles on existing reepers including cost of materials, labour, HOM complete as per specifications. (P.No-267,I No-37.9 of PWD SR 2018-19.)								
	Basic rate	407.00							
	Area Weightage 6%	24.42							
	Total	431.42							
	Tender Premium-0.25%	1.08							
	Sub Total	430.34							
	Gazib	12	0.50	2.80	2.40	40.32			
						40.32	Sqm	430.34	

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E8	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.(P.No-121 ,I No-15.53.2 of PWD SR 2018-19.)								
	Basic rate	102.00							
	Area Weightage 6%	6.12							
	Total	**108.12**							
	Tender Premium-0.25%	0.27							
	Sub Total	**107.85**							
	Bottom Base Plate	12	0.01			0.10			
	Top Base Plate	12	0.01			0.10			
	Coloumn Ttata CHS 100MM	12	1.00	3.00		36.00			
	Gazib Pole	12	0.50		2.55	15.30			
	Rafter TATA RHS	12	1.00	3.53		42.36			
	Purlion TATA RHS	12	6.00	2.50		180.00			
	Anchor Bolt 16 mm Dia	12	4.00	0.75		36.00			
						309.85	Sqm	**107.85**	**33,417.45**
E9	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications (Page no-155, Item No-20.18 of PWD SR 2018-19.)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
	Tender Premium-0.25%	5.00							
	Sub Total	**1996.28**							
	Ramaiah Layout Park								
	Damaged portion Path way								
		1	60.00	1.45	0.15	13.05			
	Opp Park	1	60.00	1.50	0.15	13.50			
						26.55	Cum	**1996.28**	**53,001.15**
								Total Construction Cost	**13440694.25**

Assistant Engineer
Dasarahalli Division
BBMP Bangalore

Asst. Executive Engineer,
Dasarahalli Division
BBMP Bangalore

FOR Executive Engineer,
Dasarahalli Division
BBMP Bangalore

Technically Sanctione for Rs. 134.40 Lakhs/-
Rs. In words Rs. one Crox thirty four lakhs forty two thousand Only
Under P-3588
Job Code No 014-20-000096
Registered as CF No. 17/2022-23. Subject to conditions contained in Enclosed Memo No. CE/D2/TS/17/2022-23, Dt. 10/10/2022

AE/JE TA CE(D) 10/10/2022

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